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A34 FRIDAY, NOVEMBER 15, 1985

THE WASHINGTON POST

THE ERUPTION OF THE NEVADA DEL RUIZ

Months of Volcanic Rumbling Warned of a Major Blow-Up

armonic Tremors, Mud Slides Preceded Colombian Blast

By Thomas O'Tools
Withington Past Staff Writer

Just as Washington's Mount St. Helens did five years ago, the Colombian volcano Nevado del Ruiz hat erupted Wednesday night gave put numerous tellitale signs in the ast 11 months that it was building toward a major eruption.

As long ago as last December, seismographs began to pick up the undilings of spasmodic earth-quakes below the volcano that are the harbingers of werse things to tome. In March of this year, there were several small steam and ash

"Everybody knew this was a volcano that hadn" suffered an eruption in 400 vears..."

- Dr. Robert Christiansen, USGS

explosions near the volcano's 17,400-foot summit that signified more violent activity, and the on Sect. It of the agent them the sect.

years, but everybody still knew it was a volcano."

Volcanoes erupt when the molten rock that normally lies far inside the mountain starts rising up, heating the rock above it and forcing it aside.

There were signs in recent weeks that a giant pool of molten rock (magma) as hot as 2,200 degrees Fahrenheit had begun to stir inside the mountain and had begun to move upward, pushing aside the tons of rock that lay in its way. The telltaile signs of moving magma were the "harmonic tremors" in the earth near the volcane that apparently were picked up by seismic listening devices in the two months since the mud slide of Sept. 11.

Harmonic tremors are rhythmic motions in the earth that involve an almost continuous release of seismic energy. While earthquakes come in episodes and then stop, harmonic tremors go on for long periods at a steady frequency.

Christiansea said that harmonictremors are always the result of moving magma end usually are the first signs of an impending major emption. The U.S. Geological Survey said yesterday that Nevado del sleeping towns in the valley was as deep as 15 to 20 feet.

A lesser mud flow on the western side of the mountain was still enough to create an artificial dam in the Quali River above the town of Mariquita, which Colombian officials were attempting to evacuate before the mud-filled dam broke apart on its own. Floods from melting snow and ice were reported in four rivers whose headwaters begin on the mountain.

The physical similarity between the eruption of Nevado del Ruiz and Mount St. Helens is striking. Both volcanoes slowly built to eruptions and both eruptions did most of their early damage with mud slides. The huge snow and ice pack on both mountains melted in the heat of eruption, cascading tons of water and mud down the flanks of the mountains into the river valleys below. But only 57 people died in the Mount St. Helens eruption, which occurred in a sparsely populated area.

Nevado del Ruiz is the largest and tailest of six volcanoes strung out in a line through central Colombia. The northernmost volcano in the Andes Mountains, Nevado del

Maqdalana River el agunilla River Mariquita ISVADO DEL RUIZ Guzli River W cicanic eruption: magma reservoir underneath the voiceno increases in size and pushes upwards. When rock strata can ne longer contain the pressurized magma, lava erupts through lissures. Nevado del Ruiz erupted on its northeastern side, melting its ice cap and causing huge quantities of mud to flow down its flanking rivers.

largest mud slides in South American history. The USGS' Dr. Darrel G. Herd described it as a "wall of mud, trees and ice that went racing down the valley to the Rio Mag-

sen said. This means they retain their gases, allowing pressure to build, rather than venting them in a way that would relieve the pressure that builds up inside volrances, bu building in strength until it exceeds the weight of the rocks above that are holding it in. The result can be another eruption. The twin eruption of Nevado dei Ruiz Wednesday Approved For Release 2000/08/08: CIA-RDP96-00789R001400330001-0

1/A0t-fact summit that signified more violent activity, and then on Sept. 11 of this year there was an eruption that melted enough snow and ice on the mountain peak to trigger a mud slide 20 miles long.

"It's not surprising, except for the violence of the eruptions that shook the mountain Wednesday right," Dr. Robert Christiansen of the U.S. Geological Survey (USGS) said by telephone from his office in Wenio Park, Calif. "Everybody knew this was a volcano that hadn't

red a major eruption in 400

eruption. The U.S. Geological Survey said yesterday that Nevado del Ruiz suffered "two carastrophic eruptions" Wednesday night between 11 p.m. and midnight.

The back-ro-back eruptions on the northeast flank of the mountain melted enough ice and snow on the mountaintop to trigger what the USGS called "two catastrophic mud flows down the northeast flank," which were channeled directly into the Lagunillas River in the broad valley at the base of the mountain. Eyewitnesses said the mud in four

thia. The northernmost volcane in the Andes Mountains, Nevado del Ruiz has also been the most destructive of the six Colombian volcanoes, erupting in a "thunderous" explosion on March 12, 1595, and erupting again in 1828 and 1829. The volcano was "still smoking" in 1831 after its two 19th-century eruptions.

The Colombian mountain was also the scene of a major earthquake on Feb. 19, 1845, that shook loose enough snow and ice on top of the mountain to trigger one of the mod, trees and for that went racing down the valley to the Rio Magdalena, killing an estimated 1,000 people" then living in the valley.

Why did Nevado del Ruiz go almost 400 years without a major eruption? Geologists say they don't know, but many suspect it is in the makeup of the magma that lies below the volcanoes that formed the Andes Mountains.

"The magmas in the Andes are very viscous and stickier, let's say, than the magmas that lie beneath the Hawaiian volcanoes," Christianway that would relieve the pressure that builds up inside volcanoes, he said. "Hawaiian volcanoes are always blowing off pressure, which might be one reason they don't erupt catastrophically."

Another reason lies with volcanoes themselves, among the most unpredictable phenomena of nature. Said Dr. Meyer Rubin of the USGS: "Volcanoes can go 1,000 years without an eruption. There's no way to predict their behavior."

The upward movement of magma can continue off and on for years, another eruption. The twin eruption of Nevado del Ruiz Wednesday night could thus signal the start of an eruptive period that could last another 10 years.

There is also the chance that Nevado del Ruiz will have an impact on the world's weather. Depending on how much suifur dioxide gas it pumps into the upper atmosphere, the erupting volcane could send a cloud of gas and dust around the world blocking just enough sunlight from reaching the surface to cool the earth by a degree or two.

Volcano Kills Thousands In Colombia

VOLCANO, From Al

for medical supplies, potable water and transport equipment to help in a rescue effort hampered by the destruction of bridges and roads. Colombian radio and television advised people in the disaster zone not to drink from local water supplies, which were feared contaminated by sulfur.

in Washington, the U.S. Agency for International Development said 12 helicopters were dispatched to the scene from a base in Panama, at the request of Colombia. A statement said AID relief expert Paul Bell and Darrell Herd of the U.S. Geological Survey in Reston, who has studied the volcano, were en route to offer assistance.]

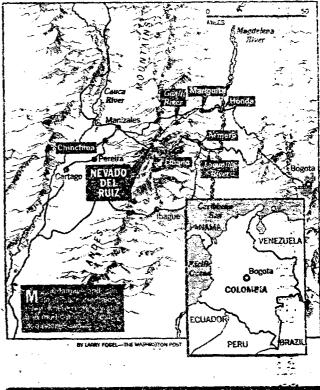
The the most seriously affected town was Armero, with a population of 25,000, about 18 miles east of the volcano. It was said by some residents to have been 90 percent submerged.

Several neighborhoods in the city



Mud surrounds and partially buries Armero, as seen from a nearby hill. The town center is immediated at lower right.





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